

The image is a large, symmetrical, abstract graphic composed of the letters 'S' and 'Y' arranged in a grid-like pattern. The overall shape is a stylized 'Y' or a complex letterform. The top part is a wide horizontal bar made of 'S's, with 'Y's forming a central vertical stem. The sides of the 'Y' are also formed by 'S's and 'Y's. The bottom part is a wide horizontal bar made of 'S's, with 'Y's forming a central vertical stem. The entire graphic is composed of black letters on a white background.

DE  
VO[illegible]

DEVICEDAT  
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- VAX/VMS SYSTEM PERMANENT DEVICE<sup>J 1</sup> DATABA 16-SEP-1984 00:00:42 VAX/VMS Macro V04-00

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```
0000 1 .TITLE DEVICEDAT - VAX/VMS SYSTEM PERMANENT DEVICE DATABASE
0000 2 .IDENT 'V04-001'
0000 3
0000 4 *****
0000 5
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0000 23
0000 24 *****
0000 25
0000 26
0000 27 ++
0000 28 FACILITY:
0000 29
0000 30 VAX/VMS I/O SUBSYSTEM
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 SYSTEM PERMANENT DEVICE DATABASE
0000 35
0000 36 AUTHOR:
0000 37 R.HEINEN 3-AUG-76
0000 38
0000 39 MODIFIED BY:
0000 40
0000 41 V04-001 BLS0351 Benn Schreiber 6-SEP-1984
0000 42 Must dpt_store fields for cloneable opa ucb.
0000 43
0000 44 V03-023 WHM0003 Bill Matthews 19-Jul-1984
0000 45 Make OPA$IDB global for use by OPDRVWS1.
0000 46
0000 47 V03-022 LMP0275 L. Mark Pilant, 12-Jul-1984 19:51
0000 48 Initialize the ACL info in the ORB to be a null descriptor
0000 49 list rather than an empty queue. This avoids the overhead
0000 50 of locking and unlocking the ACL mutex, only to find out
0000 51 that the ACL was empty.
0000 52
0000 53 V03-021 CDS0003 Christian D. Saether 1-May-1984
0000 54 Reflect change of wcb size in net$wcb.
0000 55
0000 56 V03-020 EMD0092 Ellen M. Dusseault 30-Apr-1984
0000 57 Add DEV$M_NNM characteristic to DEVCHAR2 for the
```

```
0000 58 : console and mailbox devices so that they will have
0000 59 : the prefix "node$".
0000 60 :
0000 61 : V03-019 LMP0221 L. Mark Pilant, 30-Mar-1984 12:35
0000 62 : Move UCB protection information to the Object's Rights Block.
0000 63 :
0000 64 : V03-018 PRD0072 Paul R. DeStefano 27-Feb-1984
0000 65 : Add SB$LCB (link to newest Cluster System Block)
0000 66 : to permanent local system block.
0000 67 :
0000 68 : V03-017 WHM0002 Bill Matthews 27-Feb-1984
0000 69 : Add support for 4 units in the OPA IDB for VENUS.
0000 70 :
0000 71 : V03-016 WHM0001 Bill Matthews 6-Feb-1984
0000 72 : Add support for new IDB fields for combo style devices.
0000 73 :
0000 74 : V03-015 LMP0185 L. Mark Pilant, 1-Feb-1984 9:08
0000 75 : Add support for device ACLs.
0000 76 :
0000 77 : V03-014 MMD0224 Meg Dumont, 23-Jan-1984 10:15
0000 78 : Add longword to store the Asynch DDCMP driver DPT
0000 79 :
0000 80 : V03-013 JLV0319 Jake VanNoy 16-DEC-1983
0000 81 : Add TTY$GL_JOBCTLMB, SYSS$GL_UIS, UIS$GL_USB, and
0000 82 : SYSS$GL_FALSEBACK.
0000 83 :
0000 84 : V03-012 TCM0001 Trudy C. Matthews 12-Sep-1983
0000 85 : Initialize the boot device's UCBSW REFC field to 1. This
0000 86 : prevents $ASSIGN from trying to take out a lock on the
0000 87 : system disk before locking is enabled.
0000 88 :
0000 89 : V03-011 CWH3001 CW Hobbs 5-Jul-1983
0000 90 : Increase size of operator mailbox (MBA2:) to 2560
0000 91 : byte maximum messages. This will support the security
0000 92 : message of 2048 bytes + various headers rounded up to
0000 93 : nearest page.
0000 94 :
0000 95 : V03-010 RLRDPORT Robert L. Rappaport 25-May-1983
0000 96 : Increase size of Boot Device UCB.
0000 97 :
0000 98 : V03-009 ROW0187 Ralph O. Weber 30-APR-1983
0000 99 : Increase default buffer size of null device from 132
0000 100 : to 512 bytes.
0000 101 :
0000 102 : V03-008 ROW0172 Ralph O. Weber 10-APR-1983
0000 103 : Change null device UCB device type to DT$_NULL.
0000 104 :
0000 105 : V03-007 DWT0066 David W. Thiel 20-Jan-1983
0000 106 : Update definition of the local system block.
0000 107 :
0000 108 : V03-006 MIR0022 Michael I. Rosenblum 19-Jan-1983
0000 109 : Change Console terminal port vector table to use the
0000 110 : new vector creation macros.
0000 111 :
0000 112 : V03-005 KTA3022 Kerbey T. Altmann 29-Dec-1982
0000 113 : Add permanent local system block.
0000 114 :
```



```
0000 115 : V03-004 CDS0002 Christian D. Saether 27-Dec-1982
0000 116 : Reflect move of WCB cells in NET$WCB::.
0000 117 :
0000 118 : V03-003 CDS0001 Christian D. Saether 13-Dec-1982
0000 119 : Fix problems with WCB growing a longword.
0000 120 :
0000 121 : V03-002 ROW0123 Ralph O. Weber 12-SEP-1982
0000 122 : Fix UCB macro so that it needs no ASSUMEs. Have it use
0000 123 : $UCBDEF constants an .BLKBs to define fill space rather than
0000 124 : numeric constants.
0000 125 :
0000 126 : V03-001 BLS0183 Benn Schreiber 25-Aug-1982
0000 127 : Reorganize OPA0: data structures for loadable console
0000 128 : terminal support.
0000 129 :--
0000 130 :
0000 131 : SYMBOL DEFINITIONS
0000 132 :
0000 133 :
0000 134 : $CRBDEF ; DEFINE CRB
0000 135 : $DCDEF ; DEFINE DEVICE CLASSES
0000 136 : $DDBDEF ; DEFINE DDB
0000 137 : $DEVDEF ; DEFINE DEVICE CHARACTERISTICS
0000 138 : $DYNDEF ; STRUCTURE TYPE CODE DEFINITIONS
0000 139 : $IDBDEF ; DEFINE IDB
0000 140 : $IPLDEF ; DEFINE IPL LEVELS
0000 141 : $IRPDEF ; DEFINE IRP OFFSETS
0000 142 : $ORBDEF ; OBJECT'S RIGHTS BLOCK OFFSETS
0000 143 : $SBDEF
0000 144 : $TTDEF ; DEFINE TERMINAL CHARACTERISTICS
0000 145 : $UCBDEF ; DEFINE UCB
0000 146 : $TTYDEFS ; TTY UCB extension (must FOLLOW $UCBDEF)
0000 147 : $TTYMACS ; THE TERMINAL DRIVER MACRO DEFINITIONS
0000 148 : $VECDEF ; DEFINE CRB VECTOR
0000 149 : $WCBDEF ; Define WCB
0000 150 :
0000 151 :
0000 152 : LOCAL MACROS
0000 153 :
0000 154 : .MACRO ORB LABEL,?EN,?ACL
0000 155 : ORBASE=
0000 156 : LABEL::
0000 157 : .LONG 0
0000 158 : .WORD -1,0 ; ACL MUTEX INITIALIZATION
0000 159 : .WORD EN-LABEL
0000 160 : .BYTE DYN$C_ORB
0000 161 : .BYTE ORB$M_PROT_16
0000 162 : .BLKB ORB$K_LENGTH - <. - LABEL>
0000 163 : EN:
0000 164 : .ENDM
0000 165 :
0000 166 : .MACRO STO_ORB OFFSET,SIZE,VALUE
0000 167 : X=
0000 168 : .+ORBASE+ORB$'OFFSET
0000 169 : .+SIZE 'VALUE
0000 170 : .+X
0000 171 : .ENDM
```

```
0000 172 ;
0000 173 .MACRO UCB LABEL,EXPAND=0,ORB_ADDR,?IOL,?EN,?ACL
0000 174 UCBASE=.
0000 175 LABEL::
0000 176 .LONG 0,0
0000 177 .WORD EN-LABEL
0000 178 .BYTE DYN$C_UCB
0000 179 .BYTE 0
0000 180 .BLKB UCB$L_ORB - <. - LABEL>
0000 181 .LONG ORB_ADDR
0000 182 .BLKB UCB$L_IOQFL - <. - LABEL>
0000 183 IOL: .LONG IOL,IOL
0000 184 .BLKB UCB$K_LENGTH - <. - LABEL>
0000 185 .BLKL EXPAND
0000 186 EN:
0000 187 .ENDM
0000 188 ;
0000 189 .MACRO STO_UCB OFFSET,SIZE,VALUE
0000 190 X=.
0000 191 .=UCBASE+UCB$'OFFSET
0000 192 .'SIZE 'VALUE
0000 193 .=X
0000 194 .ENDM
0000 195
0000 196 ASSUME DDB$L_LINK EQ 0
0000 197 ASSUME DDB$L_UCB EQ 4
0000 198 ASSUME DDB$W_SIZE EQ 8
0000 199 ASSUME DDB$B_TYPE EQ 10
0000 200 ASSUME DDB$L_DDT EQ 12
0000 201 ASSUME DDB$L_ACPD EQ 16
0000 202
0000 203 .MACRO DDB NAME,NEXT,FUCB,DDT,ACP,ATYPE,DEVNAM,DRVNAM,?EN
0000 204 NAME:: .LONG NEXT
0000 205 .LONG FUCB
0000 206 .WORD EN-'NAME
0000 207 .BYTE DYN$C_DDB,0
0000 208 .LONG DDT
0000 209 .LONG 'A/'ACP/+'ATYPE@24>
0000 210 .ASCIC /'DEVNAM/
0000 211 .='NAME+DDB$T_DRVNAME
0000 212 .ASCIC /'DRVNAM/
0000 213 .='NAME+DDB$L_SB
0000 214 .LONG SC$SGA_LOCALSB
0000 215 .='NAME+DDB$C_LENGTH
0000 216 EN:
0000 217 .ENDM
0000 218
00000000 219 .PSECT $$$100,QUAD,WRT
```



```
0000 221 .SBTTL SYSTEM DEVICE DATABASE LIST HEADS
0000 222 :
0000 223 : SYSTEM ADAPTER CONTROL BLOCK (ADP) LIST HEAD
0000 224 :
0000 225 IOC$GL_ADPLIST:: :
00000000 0000 226 .LONG 0 :
0004 227 :
0004 228 : SYSTEM DRIVER PROLOGUE LIST HEAD
0004 229 :
0004 230 IOC$GL_DPTLIST:: :
00000004: 0004 231 .LONG IOC$GL_DPTLIST :
00000004: 0008 232 .LONG IOC$GL_DPTLIST :
000C 233 :
000C 234 : TERMINAL CLASS DRIVER DPT POINTER
000C 235 :
000C 236 TTY$GL_DPT:: :
00000000 000C 237 .LONG 0 :
0010 238 :
0010 239 : Asynch Class driver DPT pointer
0010 240 :
0010 241 NOS$GL_DPT:: :
00000000 0010 242 .LONG 0 :
0014 243 :
0014 244 : ADDRESS OF JOB CONTROLLER MAILBOX
0014 245 :
0014 246 TTY$GL_JOBCTLMB:: :
00000618: 0014 247 .ADDRESS SYS$GL_JOBCTLMB :
0018 248 :
0018 249 : ADDRESS OF LOADED UIS CODE
0018 250 :
0018 251 SYS$GL_UIS:: :
00000000 0018 252 .LONG 0 :
001C 253 :
001C 254 : ADDRESS OF UIS CONTEXT BLOCK
001C 255 :
001C 256 UIS$GL_USB:: :
00000000 001C 257 .LONG 0 :
0020 258 :
0020 259 : ADDRESS OF SYSTEM WIDE FALLBACK TABLE
0020 260 :
0020 261 SYS$GL_FALLBACK:: :
00000000 0020 262 .LONG 0
```



```
0024 264 .SBTTL PERMANENT LOCAL SCS SYSTEM BLOCK
0024 265 :
0024 266 : LOCAL SB
0024 267 :
0024 268 SCSSGA_LOCALSB::
00000000' 0024 269 .LONG SCSSGQ_CONFIG : SB$$_FLINK
00000000' 0028 270 .LONG SCSSGQ_CONFIG : SB$$_BLINK
0060 002C 271 .WORD SB$$_LENGTH : SB$$_SIZE
60 002E 272 .BYTE DYN$$_SCS : SB$$_TYPE
07 002F 273 .BYTE DYN$$_SCS_SB : SB$$_SUBTYP
0030 274 ASSUME SB$$_PBFL EQ 12
00000030' 0030 275 10$: .LONG 10$ : SB$$_PBFL
00000030' 0034 276 .LONG 10$ : SB$$_PBBL
0038 277 ASSUME SB$$_PBCONNX EQ 20
00000000 0038 278 .LONG 0 : SB$$_PBCONNX
003C 279 ASSUME SB$$_SYSTEMID EQ 24
00000000 003C 280 .QUAD 0 : SB$$_SYSTEMID
0044 281 ASSUME SB$$_MAXDG EQ 32
00000000 0044 282 .LONG 0 : SB$$_MAXDG
0048 283 : SB$$_MAXMSG
0048 284 ASSUME SB$$_SWTYPE EQ 36
00000000 0048 285 .LONG 0 : SB$$_SWTYPE
004C 286 ASSUME SB$$_SWVERS EQ 40
00000000 004C 287 .LONG 0 : SB$$_SWVERS
0050 288 ASSUME SB$$_SWINCARN EQ 44
00000000 0050 289 .QUAD 0 : SB$$_SWINCARN
0058 290 ASSUME SB$$_HWTYPE EQ 52
00000000 0058 291 .LONG 0 : SB$$_HWTYPE
005C 292 ASSUME SB$$_HWVERS EQ 56
00000068 005C 293 .BLKB 12 : SB$$_HWVERS
0068 294 ASSUME SB$$_NODENAME EQ 68
00000078 0068 295 .BLKB 16 : SB$$_NODENAME
0078 296 ASSUME SB$$_DDB EQ 84
0078 297 :
0078 298 : SYSTEM DEVICE DATA BLOCK (DDB) LIST HEAD (NOTE: PART OF THE SB!!!)
0078 299 :
0078 300 IOC$$_GL_DEVLIST::
0000008C' 0078 301 .LONG SYSS$$_GL_BOOTDDB : START DEVICE LIST AT BOOT DEVICE
007C 302 : SB$$_DDB
007C 303
007C 304 ASSUME SB$$_TIMEOUT EQ 88
FFFE 007C 305 .WORD -2 : LOOKS LIKE TIMEOUT IS IN PROGRESS
007E 306 ASSUME SB$$_ENBMSK EQ 90
00000080 007E 307 .BLKB SB$$_ENBMSK : PROCESS POLL ENABLE MASK
0080 308
0080 309 ASSUME SB$$_CSB EQ 92
00000000 0080 310 .LONG 0 : SB$$_CSB
0084 311
00000084 0084 312 .BLKB SB$$_LENGTH-<.-SCSSGA_LOCALSB> : SPACE FOR REMAINING FIELDS
0084 313
0000008C 0084 314 .BLKB 8 : Future expansion
```

```

008C 316 .SBTTL SYSTEM BOOT DEVICE DATABASE
008C 317
008C 318 :: BOOT DEVICE DDB
008C 319 ::
008C 320 DDB SYSSGL_BOOTDDB,OPASGL_DDB,SYSSGL_BOOTUCB,0,<F11>,1
00D0 321 ::
00D0 322 :: UCB FOR SYSTEM BOOT DEVICE
00D0 323 ::
00D0 324 ::
00D0 325 ::
00D0 326 :: NOTE - THE UCB FOR THE BOOT DEVICE IS CREATED WITH A REFERENCE COUNT OF 1
00D0 327 :: TO AVOID HAVING THE FIRST $ASSIGN TRY TO TAKE OUT A LOCK ON IT BEFORE
00D0 328 :: LOCKING IS ENABLED.
00D0 329 ::
00D0 330 ORB SYSSGL_BOOTORB
0128 331 STO_ORB L_OWNER, LONG, <^X010001>
0128 332 UCB SYSSGL_BOOTUCB, 40, SYSSGL_BOOTORB
0258 333 STO_UCB B_FIPL, BYTE, 8
0258 334 STO_UCB B_DIPL, BYTE, 21
0258 335 STO_UCB L_DDB, LONG, SYSSGL_BOOTDDB
0258 336 STO_UCB L_DEVCHAR, LONG, <<DEVSM_FOD!-
0258 337 DEVSM_DIR!-
0258 338 DEVSM_AVL!-
0258 339 DEVSM_ELG!-
0258 340 DEVSM_SHR!-
0258 341 DEVSM_IDV!-
0258 342 DEVSM_ODV!-
0258 343 DEVSM_RND>>
0258 344 STO_UCB B_DEVCLASS, BYTE, DC$_DISK
0258 345 STO_UCB W_DEVBUSIZ, WORD, 512
0258 346 STO_UCB B_ERTCNT, BYTE, 8
0258 347 STO_UCB B_ERTMAX, BYTE, 8
0258 348 STO_UCB W_REFC, WORD, 1
0258 349

```



```
0258 351 .SBTTL SYSTEM CONSOLE DEVICE DATABASE
0258 352
0258 353 : CONSOLE TERMINAL DDB
0258 354 :
0258 355 DDB OPASGL_DDB,MB$GL_DDB,OPASUCB0,,,0,<OPA>,<OPERATOR>
029C 356 :
029C 357 : CONSOLE DPT
029C 358 :
029C 359 :
029C 360 : THE UCB SIZE INCLUDES 3 BYTES FOR ROUNDUP, AND 64 BYTES OF EXTRA
029C 361 : SPACE TO ALLOW INCREASING UCB SIZE WITHOUT NEEDING TO BUILD A NEW
029C 362 : SYS.
029C 363 :
00000000 364 .PSECT $$$105_PROLOGUE,RD,WRT,BYTE ; Ensure OP$DPT label points to DPT
0000 365 OP$DPT::
0000029C 366 .PSECT $$$100,QUAD,WRT ; (DPTAB macro puts DPTAB in $$$105_
029C 367 DPTAB
029C 368 END=OP DPTEND,-
029C 369 ADAPTER=UBA,- :FAKE ADAPTER
029C 370 UCBSIZE=<<<UCB$C_TT_LENGTH+3+64>/4>*4>,-
029C 371 NAME=OPERATOR,-
029C 372 VECTOR=OPASVECTOR
0038 373
0038 374 DPT_STORE INIT
0038 375 DPT_STORE UCB,UCB$C_TT_DECHAR,2L,TTY$GL_DEFCHAR ; DEFAULT CHARACTERISTICS
003F 376 DPT_STORE UCB,UCB$C_TT_DECHA1,2L,TTY$GL_DEFCHAR2
0046 377 DPT_STORE UCB,UCB$C_DEVDEPEND,2L,TTY$GL_DEFCHAR
004D 378 DPT_STORE UCB,UCB$C_TT_DEVDPI,2L,TTY$GL_DEFCHAR2
0054 379 DPT_STORE UCB,UCB$B_FIPL,B,8 ; FORK IPL
0058 380 DPT_STORE UCB,UCB$B_DIPL,B,20 ; DEVICE IPL
005C 381 DPT_STORE UCB,UCB$C_DEVCHAR,L,<-; CHARACTERISTICS
005C 382 DEV$M_REC!-
005C 383 DEV$M_AVL!-
005C 384 DEV$M_IDV!-
005C 385 DEV$M_ODV!-
005C 386 DEV$M_TRM!-
005C 387 DEV$M_CCL>
0063 388 DPT_STORE UCB,UCB$C_DEVCHAR2,L,<-; DEVICE CHARACTERISTICS
0063 389 <DEV$M_NNM> ; PREFIX WITH 'NODE$'
006A 390 DPT_STORE UCB,UCB$B_DEVCLASS,B,DC$ TERM
006E 391 DPT_STORE UCB,UCB$B_DEVTYPE,B,TT$ UNKNOWN ; TYPE
0072 392 DPT_STORE UCB,UCB$W_DEVBUFSIZ,W,132 ; BUFFER SIZE
0077 393 DPT_STORE UCB,UCB$W_STS,W,UCB$M_ONLINE ; Device comes up online
007C 394 DPT_STORE UCB,UCB$W_TT_DESIZE,W,132 ; BUFFER SIZE
0081 395 DPT_STORE UCB,UCB$W_TT_SPEED,W,TT$C_BAUD_300 ; DEFAULT SPEED
0086 396 DPT_STORE UCB,UCB$B_TT_DETYPE,B,TT$ LA36 ; TYPE
008A 397 DPT_STORE UCB,UCB$W_TT_DESPEE,W,TT$C_BAUD_300
008F 398 DPT_STORE ORB,ORB$B_FLAGS,B,-
008F 399 <ORB$M_PROT 16> ; SOGW protection word
0093 400 DPT_STORE ORB,ORB$W_PROT,2W,TTY$GW_PROT ; Default protection
009A 401 DPT_STORE UCB,UCB$W_STS,W,UCB$M_ONLINE ; Device comes up online
009F 402
009F 403 DPT_STORE REINIT ; Is this needed?
009F 404 DPT_STORE END
029C 405
000000A0 406 .PSECT $$$105_PROLOGUE,RD,WRT,BYTE ; Put OP_DPTEND label in cor
00A0 407 OP_DPTEND:
```



```
00A0 408
00A0 409
00A0 410 : CONSOLE PORT DISPATCH VECTOR. THIS VECTOR IS USED BY THE TERMINAL CLASS
00A0 411 : DRIVER TO ACCESS PORT FUNCTIONS. EACH ELEMENT IN THIS VECTOR POINTS
00A0 412 : TO A LOCATION IN SYSLOAVEC. THIS MUST BE IN SAME PSECT AS OPSDPT TO
00A0 413 : GUARANTEE THAT A POSITIVE VECTOR OFFSET IS STORED IN DPT
00A0 414
00A0 415 OPASVECTOR::
00A0 416 $VECINI OPA,CON$NULL
00D8 417 $VEC STARTIO,CON$STARTIO ; START ROUTINE
00A4 418 $VEC DISCONNECT,CON$DISCONNECT ; DISCONNECT ROUTINE
00A8 419 $VEC SET_LINE,CON$SET_LINE ; SET LINE ROUTINE
00AC 420 $VEC DS_SET,CON$DS_SET ; DATA SET ROUTINE
00B0 421 $VEC XON,CON$XON ; XON ROUTINE
00B4 422 $VEC XOFF,CON$XOFF ; XOFF ROUTINE
00B8 423 $VEC STOP,CON$STOP ; STOP ROUTINE
00BC 424 $VEC STOP2,CON$STOP2 ; STOP2 ROUTINE
00C0 425 $VEC ABORT,CON$ABORT ; ABORT ROUTINE
00C4 426 $VEC RESUME,CON$RESUME ; RESUME ROUTINE
00C8 427 $VEC SET_MODEM,CON$SET_MODEM ; SET MODEM ROUTINE
00CC 428 $VECEND
00DC 429
0000029C 430 .PSECT $$$100,QUAD,WRT
029C 431 :
029C 432 : CONSOLE UCB
029C 433 :
029C 434 ORB OPASORBO
02F4 435 STO ORB L_OWNER, LONG, <^X010001>
02F4 436 UCB OPASUCBO, 2<UCB$C_TT_LENGTH - UCB$C_LENGTH + 3 + 64> / 4>, OPASORBO
0468 437 STO UCB B_FIPL, BYTE, 8
0468 438 STO UCB B_DIPL, BYTE, 20
0468 439 STO UCB L_CRB, LONG, OPASCRB
0468 440 STO UCB L_DDB, LONG, OPASGL_DDB
0468 441 STO UCB L_DEVCHAR, LONG, <<DEVSM_REC!-
0468 442 DEVSM_AVL!-
0468 443 DEVSM_CCL!-
0468 444 DEVSM_TRM!-
0468 445 DEVSM_IDV!-
0468 446 DEVSM_ODV>>
0468 447 STO UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
0468 448 STO UCB B_DEVCLASS, BYTE, DCS_TERM
0468 449 STO UCB B_DEVTYP, BYTE, DTS_LA36
0468 450 STO UCB W_DEVBUSI2, WORD, 132
0468 451 STO UCB W_STS, WORD, UCB$M_ONLINE
0468 452 STO UCB L_DEVDEPEND, LONG, <<TTSM_LOWER!TTSM_TTSYNC!TTSM_WRAP>>
0468 453 STO UCB L_DEVDEPEND+3, BYTE, 24
0468 454 STO UCB W_TT_DESIZE, WORD, 132
0468 455 STO UCB L_TT_DECHAR, LONG, <<TTSM_LOWER!TTSM_TTSYNC!TTSM_WRAP>>
0468 456 STO UCB L_TT_DECHAR+3, BYTE, 24
0468 457 STO UCB W_TT_SPEED, WORD, TTSC_BAUD_300
0468 458 STO UCB B_TT_DETYPE, BYTE, TTSLA36
0468 459 STO UCB W_TT_DESPEE, WORD, TTSC_BAUD_300
0468 460 :
0468 461 : CONSOLE CRB
0468 462 :
0468 463 OPASCRB::
00000000 00000000 0468 464 .LONG 0,0 ;
```

```
0054' 0470 465 .WORD CD-OPASCRB ; SIZE
      05 0472 466 .BYTE DYN$C_CRB ; TYPE IS CRB
      00 0473 467 .BYTE 0 ; UNUSED
00000001 0474 468 .LONG 1 ; REF COUNT=1 AND NEVER BUSY
      0478 469 ASSUME CR$SL_AUXSTRUC EQ 16 ; Auxiliary structure ptr.
00000000 0478 470 .LONG 0
      047C 471
      047C 472 ASSUME CR$SL_TIMELINK EQ 20 ; CRB thread for periodic wakeups.
00000000 047C 473 .LONG 0
      0480 474
      0480 475 ASSUME CR$SL_DUETIME EQ 24 ; Time when to periodically awaken
00000000 0480 476 .LONG 0
      0484 477
      0484 478 ASSUME CR$SL_TOUTROUT EQ 28 ; Routine to call at periodic awakening
00000000 0484 479 .LONG 0
      0488 480
      0488 481 ASSUME CR$SL_LINK EQ 32 ; NO NEXT CRB
00000000 0488 482 .LONG 0
      048C 483 CONSINTDISI:: ;
      048C 484 ASSUME CONSINTDISI-OPASCRB EQ CR$SL_INTD
      048C 485
      048C 486 ASSUME VEC$Q_DISPATCH EQ 0
00000000 3F BB 048C 487 PUSHF #*M<R0,R1,R2,R3,R4,R5> ; SAVE REGISTERS
      GF 16 048E 488 JSB G*CONSINTINP ; INPUT INTERRUPT SERVICE
      0494 489
      0494 490 ASSUME VEC$SL_IDB EQ 8 ; POINTER TO IDB
000004BC' 0494 491 .LONG OPASIDB
      0498 492
      0498 493 ASSUME VEC$SL_INITIAL EQ 12 ; INITIALIZE CONTROLLER ENTRY POINT
00000000' 0498 494 .LONG CONSINITIAL
      049C 495
      049C 496 ASSUME VEC$W_MAPREG EQ 16
      049C 497 ASSUME VEC$B_NUMREG EQ 18
      049C 498 ASSUME VEC$B_DATAPATH EQ 19 ; MAP AND DATA PATH ALLOCATION CONTROL
00000000 049C 499 .LONG 0
      04A0 500
      04A0 501 ASSUME VEC$SL_ADP EQ 20 ; ADDRESS OF ADP
00000000 04A0 502 .LONG 0
      04A4 503
      04A4 504 ASSUME VEC$SL_UNITINIT EQ 24 ; INITIALIZE UNIT
00000000' 04A4 505 .LONG CONSINITLINE
      04A8 506
      04A8 507 ASSUME VEC$SL_START EQ 28 ; UNUSED LONGWORD
00000000 04A8 508 .LONG 0
      04AC 509
      04AC 510 ASSUME VEC$SL_UNITDISC EQ 32 ; UNUSED LONGWORD
00000000 04AC 511 .LONG 0
      04B0 512 ASSUME VEC$K_LENGTH EQ 36
      04B0 513
      04B0 514 CONSINTDISO:: ;
      04B0 515 ASSUME CONSINTDISO-OPASCRB EQ CR$SL_INTD2
      04B0 516
      04B0 517 ASSUME VEC$Q_DISPATCH EQ 0
00000C00' 3F BB 04B0 518 PUSHF #*M<R0,R1,R2,R3,R4,R5> ; SAVE REGISTERS
      GF 16 04B2 519 JSB G*CONSINTOUT ; OUTPUT INTERRUPT SERVICE
000004BC' 04B8 520 .LONG OPASIDB ; POINTER TO IDB
      04BC 521
```

```
04BC 522      ASSUME  VEC$$_IDB      EQ  8
04BC 523      CD:
04BC 524
04BC 525      :
04BC 526      : CONSOLE IDB
04BC 527
04BC 528      OPASIDB:
04BC 529      ASSUME  IDB$_CSR      EQ  0
00000000 04BC 530      .LONG  0      ; CSR ADDRESS
04C0 531
04C0 532      ASSUME  IDB$_OWNER     EQ  4
00000000 04C0 533      .LONG  0      ; OWNER UCB ADDRESS
0030' 04C4 534      .WORD  ID-OPASIDB ; SIZE OF IDB
09 04C6 535      .BYTE  DYN$$_IDB  ; TYPE OF STRUCTURE
00 04C7 536      .BYTE  0      ; UNUSED
04C8 537
04C8 538      ASSUME  IDB$_UNITS    EQ 12
0005 04C8 539      .WORD  5      ; NUMBER OF UNITS
00 04CA 540      .BYTE  0      ; TT ENABLE
00 04CB 541      .BYTE  0      ; CSR OFFSET TO MAIN CSR FOR COMBO STYLE DEV
04CC 542
04CC 543      ASSUME  IDB$_COMBO_VECTOR_OFFSET EQ 16
00 04CC 544      .BYTE  0      ; VECTOR OFFSET TO MAIN VECTOR FOR COMBO STY
00 04CD 545      .BYTE  0      ; UNUSED
0000 04CE 546      .WORD  0      ; UNUSED
04D0 547
04D0 548      ASSUME  IDB$_ADP      EQ 20
00000000 04D0 549      .LONG  0      ; ADAPTER ADDRESS
04D4 550
04D4 551      ASSUME  IDB$_UCBLST   EQ 24
000002F4' 04D4 552      .LONG  OPASUCBO ; UNIT 0 UCB ADDRESS
00000000 04D8 553      .LONG  0      ; UNIT 1 UCB ADDRESS (FLOPPY)
00000000 04DC 554      .LONG  0      ; UNIT 1 INPUT UCB ADDRESS (FLOPPY)
00000000 04E0 555      .LONG  0      ; UNIT 3 USED BY VENUS ONLY
00000000 04E4 556      .LONG  0      ; UNIT 4 (RESERVED)
00000000 04E8 557      .LONG  0      ; UNIT 5 (RESERVED)
04EC 558      ID:
```



```

04EC 560 .SBTTL SYSTEM PERMANENT MAILBOX DATABASE
04EC 561
04EC 562
04EC 563 : MAILBOX DDB
04EC 564 :
04EC 565 DDB MB$GL_DDB,NL$GL_DDB,MB$GL_UCB1,MB$DDT,,0,<MBA>,<MBDRIVER>
0530 566
0530 567 : CLONE MAILBOX UCB
0530 568
0530 569 :
0530 570 NOTE THAT THIS UCB IS NOT IN THE DDB'S UCB LIST
0530 571 :
0530 572 ORB MB$ORBO
0588 573 STO_ORB L_OWNER, LONG, <^X010001>
0588 574 UCB MB$UCB0, 0, MB$ORBO
0618 575 STO_UCB W_MB_SEED, WORD, 0
0618 576 STO_UCB B_FIPL, BYTE, IPL$_MAILBOX
0618 577 STO_UCB B_DIPL, BYTE, IPL$_MAILBOX
0618 578 STO_UCB W_MSGMAX, WORD, 20
0618 579 STO_UCB W_BUFQUO, WORD, -1
0618 580 STO_UCB L_CRB, LONG, SYS_CRB
0618 581 STO_UCB L_DDB, LONG, MB$GL_DDB
0618 582 STO_UCB L_LINK, LONG, MB$GL_UCB1
0618 583 STO_UCB L_DEVCHAR, LONG, <<DEVSM_REC!-
0618 584 DEVSM_AVL!-
0618 585 DEVSM_IDV!-
0618 586 DEVSM_MBX!-
0618 587 DEVSM_ODV!-
0618 588 DEVSM_SHR>>
0618 589 STO_UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
0618 590 STO_UCB B_DEVCLASS, BYTE, DCS_MAILBOX
0618 591 STO_UCB B_DEVTYPE, BYTE, DTS_MBX
0618 592 STO_UCB W_DEVBUFSIZ, WORD, 256
0618 593 STO_UCB W_REFC, WORD, 1
0618 594 STO_UCB W_UNIT, WORD, 0
0618 595 STO_UCB W_STS, WORD, UCB$M_ONLINE
0618 596 STO_UCB W_DEVSTS, WORD, UCB$M_PRRMBX
0618 597 STO_UCB L_DDT, LONG, MB$DDT
00000090 0618 598 MB$MBO_END:
0618 599 SYSSC_MBXUCBSIZ == <MB$MBO_END - MB$UCB0>
0618 600
0618 601 :
0618 602 : SYSTEM JOB CONTROLLER MAILBOX
0618 603 :
0618 604 SYSSGL_JOBCTLMB::
3141424D 0618 605 SYSSC_JOBCTLMB==^A/MBA1/
0618 606 UCB MB$GL_UCB1, 0, MB$GL_ORB1
06A8 607 STO_UCB L_FQFL, LONG, MB$GL_UCB1
06A8 608 STO_UCB L_FQFL+4, LONG, MB$GL_UCB1
06A8 609 STO_UCB B_FIPL, BYTE, IPL$_MAILBOX
06A8 610 STO_UCB B_DIPL, BYTE, IPL$_MAILBOX
06A8 611 STO_UCB W_MSGMAX, WORD, 60
06A8 612 STO_UCB W_BUFQUO, WORD, -1
06A8 613 STO_UCB L_CRB, LONG, SYS_CRB
06A8 614 STO_UCB L_DDB, LONG, MB$GL_DDB
06A8 615 STO_UCB L_LINK, LONG, MB$GL_UCB2
06A8 616 STO_UCB L_DEVCHAR, LONG, <<DEVSM_REC!-

```

```
06A8 617 DEVSM_AVL!-
06A8 618 DEVSM_MBX!-
06A8 619 DEVSM_IDV!-
06A8 620 DEVSM_ODV!-
06A8 621 DEVSM_SHR>>
06A8 622 STO_UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
06A8 623 STO_UCB B_DEVCLASS, BYTE, DC$ MAILBOX
06A8 624 STO_UCB W_DEVBUFSIZ, WORD, 1024
06A8 625 STO_UCB W_REFC, WORD, 1
06A8 626 STO_UCB W_UNIT, WORD, 1
06A8 627 STO_UCB W_STS, WORD, UCBSM ONLINE
06A8 628 STO_UCB W_DEVSTS, WORD, <UCBSM_PRMMBX+^X08000>
06A8 629 STO_UCB L_DDT, LONG, MB$DDT
06A8 630 ORB MB$GL ORB1
0700 631 STO_ORB L_OWNER, 'ONG, <^X010004>
0700 632 STO_ORB W_PROT, WORD, <^XOFFOF>
0700 633 :
0700 634 : SYSTEM OPERATOR MAILBOX
0700 635 :
0700 636 SYSSGL_OPRMBX::
3241424D 0700 637 SYSSC_OPRMBX==^A/MBA2/
0700 638 UCB MB$GL UCB2, 0, MB$GL ORB2
0790 639 STO_UCB L_FQFL, LONG, MB$GL UCB2
0790 640 STO_UCB L_FQFL+4, LONG, MB$GL UCB2
0790 641 STO_UCB B_FIPL, BYTE, IPL$ MAILBOX
0790 642 STO_UCB B_DIPL, BYTE, IPL$ MAILBOX
0790 643 STO_UCB W_MSGMAX, WORD, 20
0790 644 STO_UCB W_BUFQUO, WORD, -1
0790 645 STO_UCB L_CRB, LONG, SYS_CRB
0790 646 STO_UCB L_DDB, LONG, MB$GL DDB
0790 647 STO_UCB L_DEVCHAR, LONG, <2DEVSM_REC!-
0790 648 DEVSM_AVL!-
0790 649 DEVSM_MBX!-
0790 650 DEVSM_IDV!-
0790 651 DEVSM_ODV!-
0790 652 DEVSM_SHR>>
0790 653 STO_UCB L_DEVCHAR2, LONG, <<DEVSM_NNM>>
0790 654 STO_UCB B_DEVCLASS, BYTE, DC$ MAILBOX
0790 655 STO_UCB W_DEVBUFSIZ, WORD, 2560
0790 656 STO_UCB W_REFC, WORD, 1
0790 657 STO_UCB W_UNIT, WORD, 2
0790 658 STO_UCB W_STS, WORD, UCBSM ONLINE
0790 659 STO_UCB W_DEVSTS, WORD, UCBSM_PRMMBX
0790 660 STO_UCB L_DDT, LONG, MB$DDT
0790 661 ORB MB$GL ORB2
07E8 662 STO_ORB L_OWNER, LONG, <^X010004>
07E8 663 STO_ORB W_PROT, WORD, <^XOFFOF>
```

```

07E8 665 .SBTTL NULL DEVICE (NLA) DATABASE
07E8 666 :
07E8 667 : NLA DDB
07E8 668 :
07E8 669 : DDB NL$GL_DDB,0,NL$GL_UCB0,NL$DDT,,0,<NLA>,<NLDRIVER>
082C 670 :
082C 671 :
082C 672 : NL UCB FOR UNIT 0
082C 673 :
082C 674 : ORB NL$GL_ORB0
0884 675 : STO_ORB L_OWNER, LONG, <^X010001>
0884 676 : UCB NL$GL_UCB0, 0, NL$GL_ORB0
0914 677 : STO_UCB B_FIPL, BYTE, 8
0914 678 : STO_UCB B_DIPL, BYTE, 8
0914 679 : STO_UCB L_CRB, LONG, $SYS_CRB
0914 680 : STO_UCB L_DDB, LONG, NL$GL_DDB
0914 681 : STO_UCB L_DEVCHAR, LONG, <?DEVSM_REC!-
0914 682 : DEVSM_AVL!-
0914 683 : DEVSM_MBX!-
0914 684 : DEVSM_IDV!-
0914 685 : DEVSM_ODV!-
0914 686 : DEVSM_SHR>>
0914 687 : STO_UCB B_DEVCLASS, BYTE, DCS_MAILBOX
0914 688 : STO_UCB B_DEVTYPE, BYTE, DTS_NULL
0914 689 : STO_UCB W_DEVBUSIZ, WORD, 512
0914 690 : STO_UCB W_REFC, WORD, 1
0914 691 : STO_UCB W_UNIT, WORD, 0
0914 692 : STO_UCB W_STS, WORD, UCBSM_ONLINE
0914 693 : STO_UCB L_DDT, LONG, NL$DDT

```



```
0914 695 .SBTTL NETWORK DEVICE DATABASE
0914 696 :
0914 697 : NETWORK DEVICE DATA BLOCK
0914 698 :
0914 699 :
0914 700 : NETWORK WINDOW CONTROL BLOCK - SHARED BY ALL UCB'S
0914 701 :
0914 702 NET$WCB::
00000000 0914 703 .LONG 0 ; WLFL
00000000 0918 704 .LONG 0 ; WLBL
0030 091C 705 .WORD 10$-NET$WCB ; SIZE
12 091E 706 .BYTE DYN$C_WCB ; CALL IT A WCB
091F 707
00 091F 708 ASSUME WCB$B_ACCESS EQ 11
091F 709 .BYTE 0 ; ACCESS BITS
0920 710
00000000 0920 711 ASSUME WCB$S_PID EQ 12
0920 712 .LONG 0 ; PID
0924 713
00000000 0924 714 ASSUME WCB$S_ORGUCB EQ 16
0924 715 .LONG 0 ; ORGUCB
0928 716
0928 717 ASSUME WCB$W_ACON EQ 20
0928 718 ASSUME WCB$W_NMAP EQ 22
00000000 0928 719 .LONG 0 ; ACON AND NMAP
092C 720
00000000 092C 721 ASSUME WCB$S_FCB EQ 24
092C 722 .LONG 0 ; FCB
0930 723
00000000 0930 724 ASSUME WCB$S_RVT EQ 28
0930 725 .LONG 0 ; RVT
0934 726
00000000 0934 727 ASSUME WCB$S_LINK EQ 32
0934 728 .LONG 0 ; LINK
0938 729
00000000 0938 730 ASSUME WCB$S_READS EQ 36
0938 731 .LONG 0 ; READS EXECUTED
093C 732
00000000 093C 733 ASSUME WCB$S_WRITES EQ 40
093C 734 .LONG 0 ; WRITES EXECUTED
0940 735
00000000 0940 736 ASSUME WCB$S_STVBN EQ 44
0940 737 .LONG 0 ; ACCESS LOCK ID
0944 738 ASSUME WCB$K_LENGTH EQ 48
0944 739 10$:
0944 740 :
0944 741 : COMMON CRB FOR MAILBOX TYPE DEVICES
0944 742 :
0944 743 :
00000000 00000000 0944 744 SYS_CRB:
0048 0944 745 .LONG 0,0 ; CRB LIST HEAD
05 094C 746 .WORD 10$-SYS_CRB ; SIZE
00 094E 747 .BYTE DYN$C_CRB ; TYPE
00 094F 748 .BYTE 0 ; SPARE BYTE
00000000 0950 749 .LONG 0 ; REF COUNT
00000000 0954 750 ASSUME CRB$S_AUXSTRUC EQ 16
0954 751 .LONG 0 ; Auxiliary structure ptr.
```

```
00000000 0958 752 ASSUME CRB$L_TIMELINK EQ 20
00000000 0958 753 .LONG 0 ; CRB thread for periodic wakeups.
00000000 0958 754
00000000 095C 755 ASSUME CRB$L_DUETIME EQ 24
00000000 095C 756 .LONG 0 ; Time when to periodically awaken
00000000 0960 757
00000000 0960 758 ASSUME CRB$L_TOUTROUT EQ 28
00000000 0960 759 .LONG 0 ; Routine to call at periodic awakening
00000000 0964 760
00000000 0964 761 ASSUME CRB$L_LINK EQ 32
00000000 0964 762 .LONG 0 ; NO NEXT CRB
00000000 0968 763
00000000 0968 764 ASSUME .-SYS_CRB EQ CRB$L_INTD
00000000 0968 765 ASSUME VEC$Q_DISPATCH EQ 0
00000000 0968 766 .LONG 0,0 ; NO INTERRUPT VECTOR
00000944' 0970 767
00000944' 0970 768 ASSUME VEC$L_IDB EQ 8
00000944' 0970 769 .LONG SYS_CRB ; POINTER TO FAKE IDB
00000944' 0974 770
00000944' 0974 771 ASSUME VEC$L_INITIAL EQ 12
00000944' 0974 772 ASSUME VEC$W_MAPREG EQ 16
00000944' 0974 773 ASSUME VEC$B_NUMREG EQ 18
00000944' 0974 774 ASSUME VEC$B_DATAPATH EQ 19
00000944' 0974 775 ASSUME VEC$L_ADP EQ 20
00000944' 0974 776 ASSUME VEC$L_UNITINIT EQ 24
00000944' 0974 777 ASSUME VEC$L_START EQ 28
00000944' 0974 778 ASSUME VEC$L_UNITDISC EQ 32
00000000 00000000 00000000 00000000 0974 779 .LONG 0,0,0,0,0,0 ; NO INITIALIZATION FOR CONTROLLER OR UNIT
00000000 00000000 00000000 00000000 0974 780
00000000 00000000 00000000 00000000 0984
00000000 00000000 00000000 00000000 098C 781
00000000 00000000 00000000 00000000 098C 782 ASSUME VEC$K_LENGTH EQ 36
00000000 00000000 00000000 00000000 098C 783
00000000 00000000 00000000 00000000 098C 784 10$:
00000000 00000000 00000000 00000000 098C 785 ASSUME 10$-SYS_CRB EQ CRB$L_INTD2
00000000 00000000 00000000 00000000 098C 786 .END
```

DEVICEDAT  
Symbol table

N 2  
- VAX/VMS SYSTEM PERMANENT DEVICE DATABA 16-SEP-1984 00:00:42 VAX/VMS Macro V04-00  
6-SEP-1984 16:33:49 [SYS.SRC]DEVICEDAT.MAR;2

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```

$$$ = 00000020 R 03
$$OP = 00000001
ATS_UBA = 00000001
CD = 000004BC R 02
CON$ABORT ***** X 03
CON$DISCONNECT ***** X 03
CON$DS_SET ***** X 03
CON$INITIAL ***** X 02
CON$INITLINE ***** X 02
CON$INTDISI 0000048C RG 02
CON$INTDISO 00000480 RG 02
CON$INTINP ***** X 02
CON$INTOUT ***** X 02
CON$NULL ***** X 03
CON$RESUME ***** X 03
CON$SET_LINE ***** X 03
CON$SET_MODEM ***** X 03
CON$STARTIO ***** X 03
CON$STOP ***** X 03
CON$STOP2 ***** X 03
CON$XOFF ***** X 03
CON$XON ***** X 03
CRBSL_AUXSTRUC = 00000010
CRBSL_DUETIME = 00000018
CRBSL_INTD = 00000024
CRBSL_INTD2 = 00000048
CRBSL_LINK = 00000020
CRBSL_TIMELINK = 00000014
CRBSL_TOUTROUT = 0000001C
DC$_DISK = 00000001
DC$_MAILBOX = 000000A0
DC$_TERM = 00000042
DDB$B_TYPE = 0000000A
DDB$C_LENGTH = 00000044
DDB$S_ACPD = 00000010
DDB$S_DDT = 0000000C
DDB$S_LINK = 00000000
DDB$S_SB = 00000034
DDB$S_UCB = 00000004
DDB$T_DRVNAME = 00000024
DDB$W_SIZE = 00000008
DEV$M_AVL = 00040000
DEV$M_CCL = 00000002
DEV$M_DIR = 00000008
DEV$M_ELG = 00400000
DEV$M_FOD = 00004000
DEV$M_IDV = 04000000
DEV$M_MBX = 00100000
DEV$M_NNM = 00000200
DEV$M_ODV = 08000000
DEV$M_REC = 00000001
DEV$M_RND = 10000000
DEV$M_SHR = 00010000
DEV$M_TRM = 00000004
DPT$C_LENGTH = 00000038
DPT$C_VERSION = 00000004
DPT$INITAB 00000038 R 03

```

```

DPT$REINITAB 0000009F R 03
DPT$TAB 00000000 R 03
DTS_LA36 = 00000020
DTS_MBX = 00000001
DTS_NULL = 00000003
DYN$C_CRB = 00000005
DYN$C_DDB = 00000006
DYN$C_DPT = 0000001E
DYN$C_IDB = 00000009
DYN$C_ORB = 00000049
DYN$C_SCS = 00000060
DYN$C_SCS_SB = 00000007
DYN$C_UCB = 00000010
DYN$C_WCB = 00000012
ID 000004EC R 02
IDB$B_COMBO_VECTOR_OFFSET = 00000010
IDB$S_ADP = 00000014
IDB$S_CSR = 00000000
IDB$S_OWNER = 00000004
IDB$S_UCBLST = 00000018
IDB$W_UNITS = 0000000C
IOC$G_ADPLIST 00000000 RG 02
IOC$G_DEVLIST 00000078 RG 02
IOC$G_DPTLIST 00000004 RG 02
IPL$_MAILBOX = 0000000B
MBS$DDT ***** X 02
MBS$GL_DDB 000004EC RG 02
MBS$GL_ORB1 000006A8 RG 02
MBS$GL_ORB2 00000790 RG 02
MBS$GL_UCB1 00000618 RG 02
MBS$GL_UCB2 00000700 RG 02
MBS$MBO_END 00000618 R 02
MBS$ORBO 00000530 RG 02
MBS$UCBO 00000588 RG 02
NET$WCB 00000914 RG 02
NL$DDT ***** X 02
NL$GL_DDB 000007E8 RG 02
NL$GL_ORBO 0000082C RG 02
NL$GL_UCBO 00000884 RG 02
NOS$GL_DPT 00000010 RG 02
OP$DPT 00000000 RG 03
OPASCRB 00000468 RG 02
OPASGL_DDB 00000258 RG 02
OPASIDB 0000048C RG 02
OPASORBO 0000029C RG 02
OPASUCBO 000002F4 RG 02
OPASVEC 000000A0 R 03
OPASVECEND 000000D8 R 03
OPASVECTOR 000000A0 RG 03
OP_DPTEND 000000A0 R 03
ORBSB_FLAGS = 0000000B
ORBSK_LENGTH = 00000058
ORBSL_OWNER = 00000000
ORBSM_PROT_16 = 00000001
ORBSW_PROT = 00000018
ORBASE = 0000082C R 02
PORT_ABORT = 00000020

```



DEVICEDAT  
Symbol table

B 3  
- VAX/VMS SYSTEM PERMANENT DEVICE DATABA 16-SEP-1984 00:00:42 VAX/VMS Macro V04-00  
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```

PORT_DISCONNECT = 00000004
PORT_DS_SET = 0000000C
PORT_LENGTH = 00000038
PORT_RESUME = 00000024
PORT_SET_LINE = 00000008
PORT_SET_MODEM = 00000028
PORT_STARTIO = 00000000
PORT_STOP = 00000018
PORT_STOP2 = 0000001C
PORT_XOFF = 00000014
PORT_XON = 00000010
SB$B_ENBMSK = 0000005A
SB$B_HWVERS = 00000038
SB$B_SYSTEMID = 00000018
SB$K_LENGTH = 00000060
SB$K_CSB = 0000005C
SB$K_DDB = 00000054
SB$K_PBCONN = 00000014
SB$K_PBF = 0000000C
SB$Q_SWINCARN = 0000002C
SB$S_ENBMSK = 00000002
SB$T_HWTYPE = 00000034
SB$T_NODENAME = 00000044
SB$T_SWTYPE = 00000024
SB$T_SWVERS = 00000028
SB$W_MAXDG = 00000020
SB$W_TIMEOUT = 00000058
SC$SGA_LOCALSB = 00000024 RG 02
SC$SGQ_CONFIG = ***** X 02
SYSSC_JOBCTLMB = 3141424D G
SYSSC_MBXUCBSIZ = 00000090 G
SYSSC_OPRMBX = 3241424D G
SYSSGL_BOOTDDB = 0000008C RG 02
SYSSGL_BOOTORB = 000000D0 RG 02
SYSSGL_BOOTUCB = 00000128 RG 02
SYSSGL_FALLBACK = 00000020 RG 02
SYSSGL_JOBCTLMB = 00000618 RG 02
SYSSGL_OPRMBX = 00000700 RG 02
SYSSGL_UIS = 00000018 RG 02
SYS_CRB = 00000944 R 02
TT$C_BAUD_300 = 00000006
TT$M_LOWER = 00000080
TT$M_TTSYNC = 00000020
TT$M_WRAP = 00000200
TT$CA36 = 00000020
TT$UNKNOWN = 00000000
TTY$GL_DEFCHAR = ***** X 03
TTY$GL_DEFCHAR2 = ***** X 03
TTY$GL_DPT = 0000000C RG 02
TTY$GL_JOBCTLMB = 00000014 RG 02
TTY$GW_PROT = ***** X 03
UCB$B_DEVCLASS = 00000040
UCB$B_DEVTTYPE = 00000041
UCB$B_DIPL = 0000005E
UCB$B_ERTCNT = 00000080
UCB$B_ERTMAX = 00000081
UCB$B_FIPL = 0000000B

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UCB$B_TT_DETYPE = 000000F0
UCB$C_LENGTH = 00000090
UCB$C_TT_LENGTH = 00000134
UCB$K_LENGTH = 00000090
UCB$K_CRB = 00000024
UCB$K_DDB = 00000028
UCB$K_DDT = 00000088
UCB$K_DEVCHAR = 00000038
UCB$K_DEVCHAR2 = 0000003C
UCB$K_DEVDEPEND = 00000044
UCB$K_FQFL = 00000000
UCB$K_IOQFL = 0000004C
UCB$K_LINK = 00000030
UCB$K_ORB = 0000001C
UCB$K_TT_DECHA1 = 000000C8
UCB$K_TT_DECHAR = 000000C4
UCB$K_TT_DEVDP1 = 00000048
UCB$M_ONLINE = 00000010
UCB$M_PRRMBX = 00000001
UCB$W_BUFQUO = 00000018
UCB$W_DEVBUFFSIZ = 00000042
UCB$W_DEVSTS = 00000068
UCB$W_MB_SEED = 00000000
UCB$W_MSGMAX = 00000014
UCB$W_REFC = 0000005C
UCB$W_STS = 00000064
UCB$W_TT_DESIZE = 000000F1
UCB$W_TT_DESPEE = 000000E8
UCB$W_TT_SPEED = 000000F4
UCB$W_UNIT = 00000054
UCBASE = 00000884 R 02
UIS$GL_USB = 0000001C RG 02
VEC$B_DATAPATH = 00000013
VEC$B_NUMREG = 00000012
VEC$K_LENGTH = 00000024
VEC$K_ADP = 00000014
VEC$K_IDB = 00000008
VEC$K_INITIAL = 0000000C
VEC$K_START = 0000001C
VEC$K_UNITDISC = 00000020
VEC$K_UNITINIT = 00000018
VEC$Q_DISPATCH = 00000000
VEC$W_MAPREG = 00000010
WCB$B_ACCESS = 0000000B
WCB$K_LENGTH = 00000030
WCB$K_FCB = 00000018
WCB$K_LINK = 00000020
WCB$K_ORGUCB = 00000010
WCB$K_PID = 0000000C
WCB$K_READS = 00000024
WCB$K_RVT = 0000001C
WCB$K_STVBN = 0000002C
WCB$K_WRITES = 00000028
WCB$W_ACON = 00000014
WCB$W_NMAP = 00000016
X = 00000914 R 02

```

DI  
VO

+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$\$\$100	0000098C ( 2444.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC QUAD
\$\$\$105_PROLOGUE	000000DC ( 220.)	03 ( 3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:01.39
Command processing	131	00:00:00.54	00:00:06.21
Pass 1	524	00:00:23.29	00:01:13.29
Symbol table sort	0	00:00:02.98	00:00:09.25
Pass 2	147	00:00:04.20	00:00:14.25
Symbol table output	27	00:00:00.18	00:00:00.91
Psect synopsis output	2	00:00:00.03	00:00:00.10
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	869	00:00:31.31	00:01:45.59

The working set limit was 1800 pages.  
121898 bytes (239 pages) of virtual memory were used to buffer the intermediate code.  
There were 110 pages of symbol table space allocated to hold 1937 non-local and 25 local symbols.  
786 source lines were read in Pass 1, producing 24 object records in Pass 2.  
60 pages of virtual memory were used to define 56 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	23
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	7
TOTALS (all libraries)	30

2373 GETS were required to define 30 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:DEVICEDAT/OBJ=OBJ\$:DEVICEDAT MSRC\$:DEVICEDAT/UPDATE=(ENH\$:DEVICEDAT)+EXECMLS/LIB



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